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I hereby certify that this paper and every paper referred to therein as being enclosed is being deposited with the U.S. Postal Service as first class mail, postage prepaid, in an envelope addressed to: Commissioner for Patents & Trademarks, Washington, DC 20231.

on August 28, 2002 (Date of Deposit)

Date 08/28/02 Name Shelly Hart

PATENT
Attorney Docket No. 4609 M
M&W No. APM/039-00

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Hiroji Hanawa, et al.

Serial No.: 09/638,075

Examiner: Rodney McDonald

Filed: August 11, 2000

Group Art Unit: 1753

For: EXTERNALLY EXCITED TORROIDAL PLASMA SOURCE

AMENDMENT TRANSMITTAL

Commissioner for Patents & Trademarks
Washington, DC 20231

SIR:

Transmitted herewith is an amendment under 37 CFR 1.111 in the above-identified application in response to the Office Action dated August 7, 2002. The fee has been calculated as shown below.

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	Claims remaining after amendment		Highest number previ- ously paid for		Present extra	Rate	Additional Fee
Total Claims	36	minus	37	=	0	\$18	\$000.00
Independent	6	minus	6	=	0	\$84	\$000.00
If Multiple Dependent Claims Are Present, Add \$280.00							
(If applicant is a "small entity," subtract half of total)							

Total additional fee
for this amendment

\$000.00

- ☒ [X] No additional fee is required.
- ☐ [] A check in the amount of \$ is attached.
- ☒ [X] The Commissioner is hereby authorized to charge any additional fees or deficiencies or credit overpayment to Deposit Account No. 50-0338. A duplicate copy of this sheet is enclosed.

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Respectfully submitted,

Robert M. Wallace

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Dated: Aug 28, 2002

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Shelly Hart
Date 08/28/02 Name

PATENT

Attorney Docket No. 4609 M
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:
Hiroji Hanawa, et al.

Entitled: EXTERNALLY EXCITED
TORROIDAL PLASMA SOURCE

Serial No.: 09/638,075

Filing Date: August 11, 2000

Group Art Unit: 1753

Examiner: Rodney McDonald

AMENDMENT UNDER 37 CFR 1.111

Commissioner of Patents & Trademarks
Washington, D.C. 20231

Sir:

In response to the Office Action dated August 7, 2002
(paper no. 14), please amend the above-identified patent application
as follows:

In the claims:

Please add the following claims:

³³
~~38~~. The plasma reactor of Claim ²⁷~~23~~ wherein said conduit is
formed of a metal material, said conduit having an insulating gap
within a wall of the conduit extending transversely to said
torroidal path and separating said conduit into two portions so as
to prevent formation of a closed electrical path along the length
of said conduit.

³⁴
~~39~~. The plasma reactor of Claim ³³~~38~~ wherein said ~~vacuum~~
enclosure comprises a longitude side wall and an overlying lateral